

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 03-288530 (71)Applicant : TOSHIBA CORP

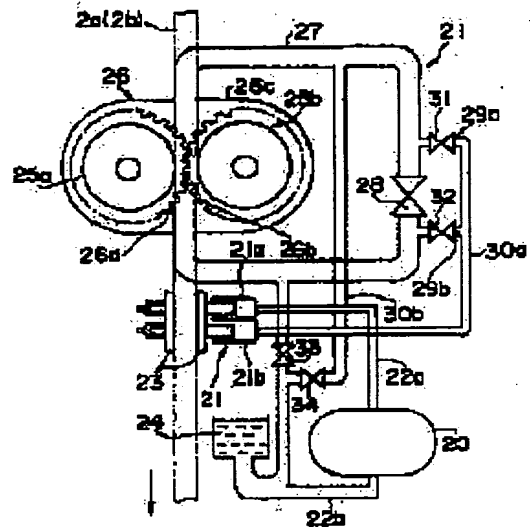
(22)Date of filing : 05.11.1991 (72)Inventor : OSADA AKIRA

(54) ELEVATOR

(57)Abstract:

PURPOSE: To decrease an output capacity of a main pump, reduce weight and downsize a driving system of the main pump, and provide a powerful backup braking device in the braking device for a riding cage of an elevator to travel in hoistway and a transverse traveling passage in a multistoried building by means of the riding cage using a linear motor.

CONSTITUTION: A main pump 20 is arranged in a riding cage, and a braking device 21 is connected to this main pump through respective communicating pipes 22a and 22b, and is arranged so as to apply the brake while sandwiching guide rails 2a and 2b, and a pair of guide rollers 25a and 25b are installed on shafts so as to rotate on the guide rails 2a and 2b while being brought into contact with them, and an auxiliary pump 26 is connected to these both guide rollers, and is also arranged so as to apply the brake by sending pressure oil forcibly to the braking device 21. A circulating passage 27 is connected to the auxiliary pump, and respective communicating pipes 30a and 30b are branched off from this circulating passage, and are connected so as to communicate with the braking device 21, and respective flow rate control valves 28, 31, 32, 34 and 35 are added to these respective communicating pipes and the circulating passage.



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